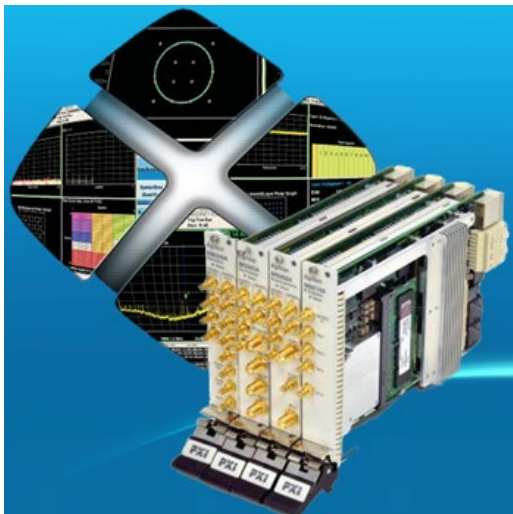


# **Agilent M90XA X-Series Measurement Applications for Modular Instruments**



## **Revision History**

## Notices

© Agilent Technologies, Inc. 2013

No part of this manual may be reproduced in any form or by any means (including electronic storage and retrieval or translation into a foreign language) without prior agreement and written consent from Agilent Technologies, Inc. as governed by United States and international copyright laws.

## Manual Part Number

M9000-90008

## Edition

8YWa VYf 1, , build 1&% .14:46

Printed in USA

## Warranty

**The material contained in this document is provided "as is," and is subject to being changed, without notice, in future editions. Further, to the maximum extent permitted by applicable law, Agilent disclaims all warranties, either express or implied, with regard to this manual and any information contained herein, including but not limited to the implied warranties of merchantability and fitness for a particular purpose. Agilent shall not be liable for errors or for incidental or consequential damages in connection with the furnishing, use, or performance of this document or of any information contained herein. Should Agilent and the user have a separate written agreement with warranty terms covering the material in this document that conflict with these terms, the warranty terms in the separate agreement shall control.**

## Technology Licenses

The hardware and/or software described in this document are furnished under a license and may be used or copied only in accordance with the terms of such license.

## Restricted Rights Legend

If software is for use in the performance of a U.S. Government prime contract or subcontract, Software is delivered and licensed as "Commercial computer Software" as defined in DFAR 252.227-7014 (June 1995), or as a "commercial item" as defined in FAR 2.101(a) or as "Restricted computer software" as defined in FAR 52.227-19 (June 1987) or any equivalent agency regulation or contract clause. Use, duplication or disclosure of Software is subject to Agilent Technologies' standard commercial license terms, and non-DOD Departments and Agencies of the U.S. Government will receive no greater than Restricted Rights as defined in FAR 52.227-19(c)(1-2) (June 1987). U.S. Government users will receive no greater than Limited Rights as defined in FAR 52.227-14 (June 1987) or DFAR 252.227-7015 (b)(2) (November 1995), as applicable in any technical data.

## Safety Notices

### CAUTION

A **CAUTION** notice denotes a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in damage to the product or loss of important data. Do not proceed beyond a **CAUTION** notice until the indicated conditions are fully understood and met.

---

### WARNING

A **WARNING** notice denotes a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in personal injury or death. Do not proceed beyond a **WARNING** notice until the indicated conditions are fully understood and met.

---



# Table of Contents

<b>M90XA Revision History .....</b>	<b>4</b>
<b>Version 1.1.500 (Release Date December 16, 2013) .....</b>	<b>5</b>
Enhancements .....	5
Issues Resolved .....	5
<b>Version 1.0.9 (Release Date October 4, 2013) .....</b>	<b>5</b>

# M90XA Revision History

This revision history document is relevant for the following Agilent products:

Product/Feature	Description
M9071A	GSM/EDGE/EVO Measurement Application
M9072A	CDMA2000/CDMAOne Measurement Application
M9073A	W-CDMA/HSPA+ Measurement Application
M9076A	1xEV-DO Measurement Application
M9077A	WLAN 802.11a/b/g/n/ac Measurement Application
M9079A	TD-SCDMA/HSPA Measurement Application
M9080A	LTE FDD Measurement Application
M9082A	LTE TDD Measurement Application

Agilent recommends that you keep your system up to date by installing the most recent software version. Only the most current version, along with update instructions, is accessible via the web and can be downloaded from [www.agilent.com/find/M90XA](http://www.agilent.com/find/M90XA).

The table below lists the release dates for each version of instrument software.

To see the version that is currently installed on your system, open Control Panel and find M90XA under installed programs. You can find versions of installed components as follows:

- M9391A driver: Control Panel, Installed Programs
- XSA: Run M90XA. Send the SCPI query \*IDN? or from the GUI, select **Utilities > System > Show > System** and look for the **Instrument S/W Revision** entry on the display.

M90XA Software Version	Release Date
<a href="#">Version 1.1.500</a>	December 16, 2013
<a href="#">Version 1.0.9</a>	October 4, 2013

---

## **Version 1.1.500 (Release Date December 16, 2013)**

Minimum required M9391A driver: 1.1.300  
XSA version: A.13.33

---

### **Enhancements**

None

---

### **Issues Resolved**

- Fixed an issue where the result for Power Spectral Density (PSD) under the Channel Power (CHP) measurement was slightly less than the value measured with a swept analyzer.
- Fixed an issue where the Gate Length parameter was not being used to determine the data acquisition time for gated spectrum measurements.
- Fixed an issue where the TD-SCDMA Spectrum Emission Mask measurement did not account for External Gain for the first measurement.
- Fixed several issues that caused the M90XA to crash at exit.
- Fixed an issue where the M90XA virtual front panel was always the top-most window.

---

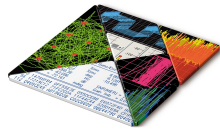
## **Version 1.0.9 (Release Date October 4, 2013)**

Minimum required M9391A driver: 1.1.136  
XSA version: A.13.32  
Initial Release



## The Modular Tangram

The four-sided geometric symbol that appears in Agilent modular product literature is called a tangram. The goal of this seven-piece puzzle is to create shapes—from simple to complex. As with a tangram, the possibilities may seem infinite as you begin to create a new test system. With a set of clearly defined elements—hardware, software—Agilent can help you create the system you need, from simple to complex.



**DISCOVER** the Alternatives ...

... Agilent **MODULAR** Products



**Agilent Advantage Services** is committed to your success throughout your equipment's lifetime.  
[www.agilent.com/find/advantageservices](http://www.agilent.com/find/advantageservices)



**Agilent Email Updates** keep you informed on the latest product, support and application information.  
[www.agilent.com/find/emailupdates](http://www.agilent.com/find/emailupdates)



**Agilent Channel Partners** provide sales and solutions support. For details, see  
[www.agilent.com/find/channelpartners](http://www.agilent.com/find/channelpartners)



ISO 9001:2008 certified. For details, see  
[www.agilent.com/quality](http://www.agilent.com/quality)



PICMG and the PICMG logo, CompactPCI and the CompactPCI logo, AdvancedTCA and the AdvancedTCA logo are US registered trademarks of the PCI Industrial Computers Manufacturers Group. "PCIe" and "PCI EXPRESS" are registered trademarks and/or service marks of PC-SIG. Microsoft, Windows, Visual Studio, Visual C++, Visual C#, and Visual Basic are either registered trademark or trademarks of Microsoft Corporation.

Product descriptions in this document are subject to change without notice.

© Agilent Technologies, Inc. 2010-2013

[www.agilent.com](http://www.agilent.com)

[www.agilent.com/find/modular](http://www.agilent.com/find/modular)

[www.agilent.com/find/M90XA](http://www.agilent.com/find/M90XA)

For more information on Agilent Technologies' products, applications or services, please contact your local Agilent office. (For additional listings, go to [www.agilent.com/find/assist](http://www.agilent.com/find/assist).)

### Americas

Canada	(877) 894 4414
Brazil	(11) 4197 3500
Mexico	01800 5064 800
United States	(800) 829 4444

### Asia Pacific

Australia	1 800 629 485
China	800 810 0189
Hong Kong	800 938 693
India	1 800 112 929
Japan	0120 (421) 345
Korea	080 769 0800
Malaysia	1 800 888 848
Singapore	1 800 375 8100
Taiwan	0800 047 866
Thailand	1 800 226 008

### Europe & Middle East

Austria	43 (0) 1 360 277 1571
Belgium	32 (0) 2 404 93 40
Denmark	45 70 13 15 15
Finland	358 (0) 10 855 2100
France	0825 010 700 (0.125 €/minute)
Germany	49 (0) 7031 464 6333
Ireland	1890 924 204
Israel	972 3 9288 504 / 544
Italy	39 02 92 60 8484
Netherlands	31 (0) 20 547 2111
Spain	34 (91) 631 3300
Sweden	0200 88 22 55
Switzerland	0800 80 53 53
United Kingdom	44 (0) 118 9276201



**Agilent Technologies**